flex布局

目录
一、 Flex布局是什么？
二、基本概念
三、容器的属性
3.1 flex-direction属性
3.2 flex-wrap属性
3.3 flex-flow
3.4 justify-content属性
3.5 align-items属性
3.6 align-content属性
四、项目的属性
4.1 order属性
4.2 flex-grow 属性
4.3 flex-shrink 属性
4.4 flex-basis 属性
4.5 flex 属性
4.6 align-self 属性
Flex布局实例教程
一、骰子的布局
1.1 单项目：首行左对齐
1.2 单项目：首行居中对齐
1.3 单项目：首行右对齐
1.4 单项目：中行左对齐
1.5 单项目：垂直居中对齐
1.6 单项目：尾行居中对齐
1.7 单项目：尾行右对齐
1.8 双项目：首行两端对齐
1.9 双项目：首列两端对齐
1.10 双项目：中列两端对齐

1.11 双项目：尾列两端对齐
1.12 双项目：首行左对齐，中行居中对齐
1.13 双项目：首行左对齐，尾行右对齐
1.14 三项目：对角线布局
1.15 四项目：首行排满，尾行右对齐
1.16 四项目：四角对齐
1.17 六项目：首行排满，尾行排满
1.18 六项目：首列排满，尾列排满
1.19 六项目：首行两端对齐，中行居中，尾行排满
1.20 九项目
二、网格布局
2.1 基本网格布局
2.2 百分比布局
三、圣杯布局
四、输入框的布局
五、悬挂式布局
六、固定的底栏
两栏式布局
参考链接

网页布局（ layout）是 CSS的一个重点应用。



传统的布局有下面几种。

display: block;
display: inline;
display: list-item;
display: table;

display属性搭配 position属性和 float属性，是最常见的布局解决方案。

但是，这个方案基于 盒状模型 ，对于那些特殊位置的布局非常不方便。比如， 垂直居中就很不容易实现，代码好像一种破解，而不是正常的解决。

```
.element {
  position: relative;
  top: 50%;
  transform: translateY(-50%);
}
```



2009□□ W3C□□□□□□□□□ ——Flex□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ 5 □□□□□□ Flex□□□



□□□□□□□□□ Flex□□□ A Complete Guide to Flexbox□ A Visual Guide to CSS3 Flexbox Properties□

□□ Flex□□□□□□

Flex □ flexible box □□□□□□□□□□□□□□□□□□□□

```
.box{
  display: -webkit-flex; /* Safari */
  display: flex;
}
```

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□□ Flex □□□□□□□□ Flex □□□ flex container□□□□ “□□ ”
□□□□□□□□□□□□□□□□□□□□ Flex □□□ flex item□□□□ “□□ ”□



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□□□□□□□□□□□□□□□□□□□□ main start□□□□□□□ main end□□□□□□□□□□□
cross start□□□□□□□ cross end□

□□□□□□□□□□□□□□□□□□□□ main size□□□□□□□□□□□□ cross size□

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> “
> - flex-direction
> - flex-wrap
> - flex-flow
> - justify-content
> - align-items
> - align-content

3.1 flex-direction□□

`flex-direction` □□□□□□□□□□□□□□□□□□□□

```
.box {
  flex-direction: row | row-reverse | column | column-reverse;
}
```



□□□□ 4□□□

- `row` □□□□□□□□□□□□□□□□□□□□□□
- `row-reverse` □□□□□□□□□□□□□□□□
- `column` □□□□□□□□□□□□□□□□
- `column-reverse` □□□□□□□□□□□□□□□□

3.2 flex-wrap□□

□□□□□□□□□□□□□□□□□□ “□□ ”□□□ `flex-wrap`□□□□□□□□□□□□□□□□□□□□□□□□



```
.box{
  flex-wrap: nowrap | wrap | wrap-reverse;
}
```

□□□□□□□□



□ 1□ `nowrap`□□□□□□□□□



□ 2□ `wrap`□□□□□□□□□□□



□ 3□ `wrap-reverse`□□□□□□□□□□□

3.3 flex-flow

`flex-flow`□□□ `flex-direction`□□□ `flex-wrap`□□□□□□□□□□□□ `row nowrap`□

```
.box {
  flex-flow: <flex-direction> || <flex-wrap>;
}
```

□□□□□□□□

```
div {
□display: flex;
□flex-flow: row wrap;
}
```

3.4 justify-content□□

`justify-content`□□□□□□□□□□□□□□□□□□□

```
.box {
  justify-content: flex-start | flex-end | center | space-between | space-around;
}
```



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- `flex-start`□□□□□□□□□
- `flex-end`□□□□
- `center`□ □□
- `space-between`□□□□□□□□□□□□□□□□□□□□□□□□□□□□
- `space-around`□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

3.5 align-items□□

`align-items`□□□□□□□□□□□□□□□□□

```
.box {
  align-items: flex-start | flex-end | center | baseline | stretch;
}
```



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□□ 6□□□□□□□□□

- `order`
- `flex-grow`
- `flex-shrink`
- `flex-basis`
- `flex`
- `align-self`

4.1 order□□

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□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

`order`□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ `0`□

```
.item {
  order: <integer>;
}
```



4.2 flex-grow □□

`flex-grow`□□□□□□□□□□□□□□□□ 0□□□□□□□□□□□□□□□□□□□□□

```
.item {
  flex-grow: <number>; /* default 0 */
}
```



□□□□□□□□ `flex-grow`□□□□ 1□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ `flex-grow`
□□□ 2□□□□□□□□ 1□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ `flex-grow`
□□□□□□□□□□□□□□ `2`□□□□□□□ `1`□□□□

`flex-grow` □□□□□□□□□□□□□□□□□□□□ `1` □□□□□ `2` □ `0.5` □□□□□□□□□

4.3 flex-shrink □□

`flex-shrink` □□□□□□□□□□□□□□□□□□ 1□□□□□□□□□□□□□□□□□

```
.item {
  flex-shrink: <number>; /* default 1 */
}
```



□□□□□□□ `flex-shrink` □□□□ 1
□□□□□□□□□□□□□□□□□□□

□□□□□□□□□□ `auto` (□□ `1 1 auto`) □ none (□□ `0 0 auto`)□

4.6 align-self □□

`align-self` □□□□□□□□□□□□□□□□□□□□□□□□□□□□ `align-items` □□□□□□□ `auto` □□□□□□□□□ `align-items` □□□□□□□□□□□□□□□ `stretch` □

```
.item {
  align-self: auto | flex-start | flex-end | center | baseline | stretch;
}
```



□□□□□□ 6□□□□□ `auto` □□□□□ `align-items` □□□□□□□

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Flex□□□□□

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□□□□□□ Landon Schropp□□□□ Solved by Flexbox□

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□□□□□□□□□□ HTML□□□□□□□

```
<div class="box">
  <span class="item"></span>
</div>
```

□□□□□□ div□□□ Flex□□□ span□□□ Flex□□□□□□□□□□□□□□□□□□□□ span □□□□□□□□

1.1 □□□□□□□□

Flex□□□□□□□□□□□□□□□□□□□□□□□□



```
.box {
  display: flex;
}
```

1.2 □□□□□□□□



```
.box {
  display: flex;
  justify-content: center;
}
```

1.3 □□□□□□□□



```
.box {
  display: flex;
  justify-content: flex-end;
}
```

1.4 □□□□□□□□



```
.box {
  display: flex;
  align-items: center;
}
```

1.5 □□□□□□□□



```
.box {
  display: flex;
  justify-content: center;
  align-items: center;
}
```

1.6 □□□□□□□□



```
.box {
  display: flex;
  justify-content: center;
  align-items: flex-end;
}
```

1.7 □□□□□□□



```
.box {
  display: flex;
  justify-content: flex-end;
  align-items: flex-end;
}
```

1.8 □□□□□□□□



```
.box {
  display: flex;
  justify-content: space-between;
}
```

1.9 □□□□□□□□



```
.box {
  display: flex;
  flex-direction: column;
  justify-content: space-between;
}
```

1.10 □□□□□□□□



```
.box {
  display: flex;
  flex-direction: column;
```

```
  justify-content: space-between;
  align-items: center;
}
```

1.11 □□□□□□□□□



```
.box {
  display: flex;
  flex-direction: column;
  justify-content: space-between;
  align-items: flex-end;
}
```

1.12 □□□□□□□□□□□□□□



```
.box {
  display: flex;
}

.item:nth-child(2) {
  align-self: center;
}
```

1.13 □□□□□□□□□□□□□□



```
.box {
  display: flex;
  justify-content: space-between;
}

.item:nth-child(2) {
  align-self: flex-end;
}
```

1.14 □□□□□□□□



```
.box {
  display: flex;
}

.item:nth-child(2) {
  align-self: center;
}

.item:nth-child(3) {
  align-self: flex-end;
}
```

1.15 □□□□□□□□□□□□



```
.box {
  display: flex;
  flex-wrap: wrap;
  justify-content: flex-end;
  align-content: space-between;
```

```
}
```

1.16 □□□□□□□



HTML□□□□□

```
<div class="box">
  <div class="column">
    <span class="item"></span>
    <span class="item"></span>
  </div>
  <div class="column">
    <span class="item"></span>
    <span class="item"></span>
  </div>
</div>
```

CSS□□□□□

```
.box {
  display: flex;
  flex-wrap: wrap;
  align-content: space-between;
}

.column {
  flex-basis: 100%;
  display: flex;
  justify-content: space-between;
}
```

1.17 □□□□□□□□□□□□



```
.box {
  display: flex;
  flex-wrap: wrap;
  align-content: space-between;
}
```

1.18 □□□□□□□□□□□



```
.box {
  display: flex;
  flex-direction: column;
  flex-wrap: wrap;
  align-content: space-between;
}
```

1.19

□□□□□□□□□□□□□□□□□□□□



HTML□□□□□

```
<div class="box">
  <div class="row">
    <span class="item"></span>
    <span class="item"></span>
    <span class="item"></span>
  </div>
  <div class="row">
    <span class="item"></span>
  </div>
  <div class="row">
```

```
      <span class="item"></span>
      <span class="item"></span>
    </div>
  </div>
```

CSS□□□□□

```
.box {
  display: flex;
  flex-wrap: wrap;
}

.row{
  flex-basis: 100%;
  display:flex;
}

.row:nth-child(2){
  justify-content: center;
}

.row:nth-child(3){
  justify-content: space-between;
}
```

1.20 □□□



```
.box {
  display: flex;
  flex-wrap: wrap;
}
```

□□□□□□

2.1 □□□□□□

□□□□□□□□□



HTML□□□□□

```
<div class="Grid">
  <div class="Grid-cell">…</div>
  <div class="Grid-cell">…</div>
  <div class="Grid-cell">…</div>
</div>
```

CSS□□□□□

```
.Grid {
  display: flex;
}

.Grid-cell {
  flex: 1;
}
```

□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

□□□□□□□□□□□□ media query□□□□□□□□□

```
@media (max-width: 400px) {
  .flex-grid {
    display: block;
  }
}
```

□□□□□□□□□□□□□□□□□□□

```
.flex-grid-thirds {
  display: flex;
  justify-content: space-between;
```

```
}
.flex-grid-thirds .col {
  width: 32%;
}
```

2.2 □□□□

□□□□□□□□□□□□□□□□□□□□□□□□



HTML□□□□□

```
<div class="Grid">
  <div class="Grid-cell u-1of4">…</div>
  <div class="Grid-cell">…</div>
  <div class="Grid-cell u-1of3">…</div>
</div>
```

```
.Grid {
  display: flex;
}

.Grid-cell {
  flex: 1;
}

.Grid-cell.u-full {
  flex: 0 0 100%;
}

.Grid-cell.u-1of2 {
  flex: 0 0 50%;
}

.Grid-cell.u-1of3 {
  flex: 0 0 33.3333%;
```

```
}

.Grid-cell.u-1of4 {
  flex: 0 0 25%;
}
```

□□□□□

□□□□ □ Holy Grail Layout□□□□

```
.HolyGrail-body {
  display: flex;
  flex: 1;
}

.HolyGrail-content {
  flex: 1;
}

.HolyGrail-nav, .HolyGrail-ads {
  /* □□□□□□□□□12em */
  flex: 0 0 12em;
}

.HolyGrail-nav {
  /* □□□□□□□ */
  order: -1;
}
```

□□□□□□□□□□□□□□□□□□□

```
@media (max-width: 768px) {
  .HolyGrail-body {
    flex-direction: column;
    flex: 1;
  }
  .HolyGrail-nav,
  .HolyGrail-ads,
  .HolyGrail-content {
    flex: auto;
  }
}
```

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HTML□□□□□

```
<div class="InputAddOn">
  <span class="InputAddOn-item">…</span>
  <input class="InputAddOn-field">
  <button class="InputAddOn-item">…</button>
</div>
```

CSS□□□□□

```
.InputAddOn {
  display: flex;
}

.InputAddOn-field {
  flex: 1;
}
```

□□□□□□

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HTML□□□□□

```
<div class="Media">
  <img class="Media-figure" src="" alt="">
  <p class="Media-body">…</p>
</div>
```

CSS□□□□□

```
.Media {
  display: flex;
  align-items: flex-start;
}

.Media-figure {
  margin-right: 1em;
}

.Media-body {
  flex: 1;
}
```

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□□□□□

```
  flex: 1;
}
```

□□□□

□□□□□□□□□□ Flexbox □□□□□□

```
/*
  HTML □□□□
  <div class="wrapper">
    <section class="main-column" />
    <aside class="sidebar" />
  </div>
*/

.wrapper {
  display: flex;
}

.main-column {
  width: 70%;
  padding-right: 2rem;
}

.sidebar {
  width: 30%;
}
```

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- Getting Dicey With Flexbox, by Landon Schropp
- A Complete Guide to Flexbox
- Dimitar Stojanov, A Visual Guide to CSS3 Flexbox Properties

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